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DEC 17 2004
PATENT & TRADEMARK

S_1 MOT Table

A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
5	1	8	0	6	2	3	33	20	18		16	17	10	44	7	23	12	11	9
36	41	13	15	28	31	4	37	25	46			22	19		24	29	21		
		14		42		40		34				26	43		45		30		
		32						35				27							
												38							
												39							

S_2 MOT Table

A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
33	0		1	19	3	28	17	8	6		52	11	20	7	13	26	2	34	38
40	36		39	47	41	42		10	23			16	44	21	22		4	46	45
					49	43		14	30			25		31			5	50	48
					53			32				27					9		
																	12		
																	15		
																	18		
																	24		
																	29		
																	35		
																	37		
																	51		

FIG. 1

0:	0						
1:	0						
2:	0						
3:	0						
4:	0						
5:	0						
6:	1	41					
7:	1	46					
8:	0						
9:	0						
10:	1	44					
11:	0						
12:	0						
13:	0						
14:	0						
15:	1	45					
16:	0						
17:	0						
18:	0						
19:	3	30	31	39			
20:	2	35	38				
21:	2	30	34				
22:	2	30	35				
23:	1	34					
24:	6	39	42	43	44	45	46
25:	1	38					
26:	2	30	35				
27:	2	34	37				
28:	1	21					
29:	1	30					
30:	2	21	25				
31:	4	21	27	33	46		
32:	3	25	26	30			
33:	2	15	39				
34:	2	38	44				
35:	6	18	20	21	30	39	40
36:	5	22	24	25	27	38	
37:	3	12	20	26			
38:	2	21	28				
39:	1	12					
40:	1	12					
41:	5	17	20	21	22	30	
42:	1	41					
43:	0						
44:	5	12	21	29	35	36	
45:	3	24	27	34			
46:	4	1	17	26	30		
47:	2	12	27				
48:	5	0	2	19	26	43	
49:	1	40					

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FIG. 2A

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50:	5	12	21	22	23	40
51:	1	36				
52:	4	18	22	30	42	
53:	2	7	12			
54:	2	25	30			
55:	2	17	21			
56:	0					
57:	3	10	17	31		
58:	0					
59:	3	12	18	20		
60:	1	6				
61:	1	21				
62:	1	7				
63:	1	21				
64:	1	12				
65:	1	31				
66:	1	28				
67:	0					
68:	1	30				
69:	1	31				
70:	2	11	12			
71:	2	4	15			
72:	3	3	12	19		
73:	0					
74:	0					
75:	1	5				

76:	1	9						
77:	1	21						
78:	0							
79:	0							
80:	0							
81:	1	10						
82:	3	1	5	11				
83:	2	9	16					
84:	0							
85:	1	4						
86:	7	0	2	3	4	9	11	12
87:	1	3						
88:	1	6						
89:	0							
90:	0							
91:	0							
92:	0							
93:	0							
94:	1	2						
95:	0							
96:	0							
97:	0							
98:	1	2						
99:	0							
100:	0							

FIG. 2B

OIPE Scan
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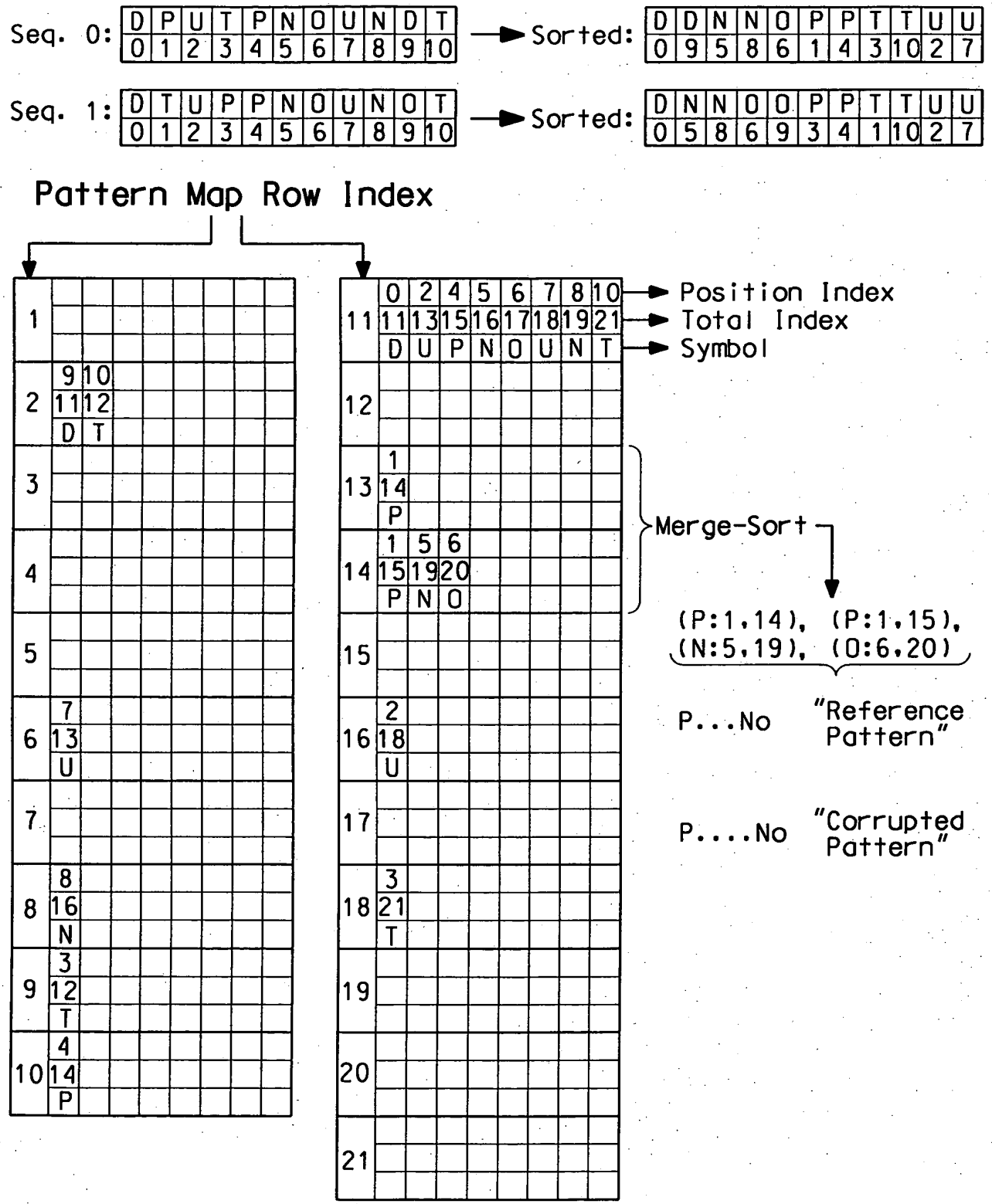

FIG. 3

OIPE
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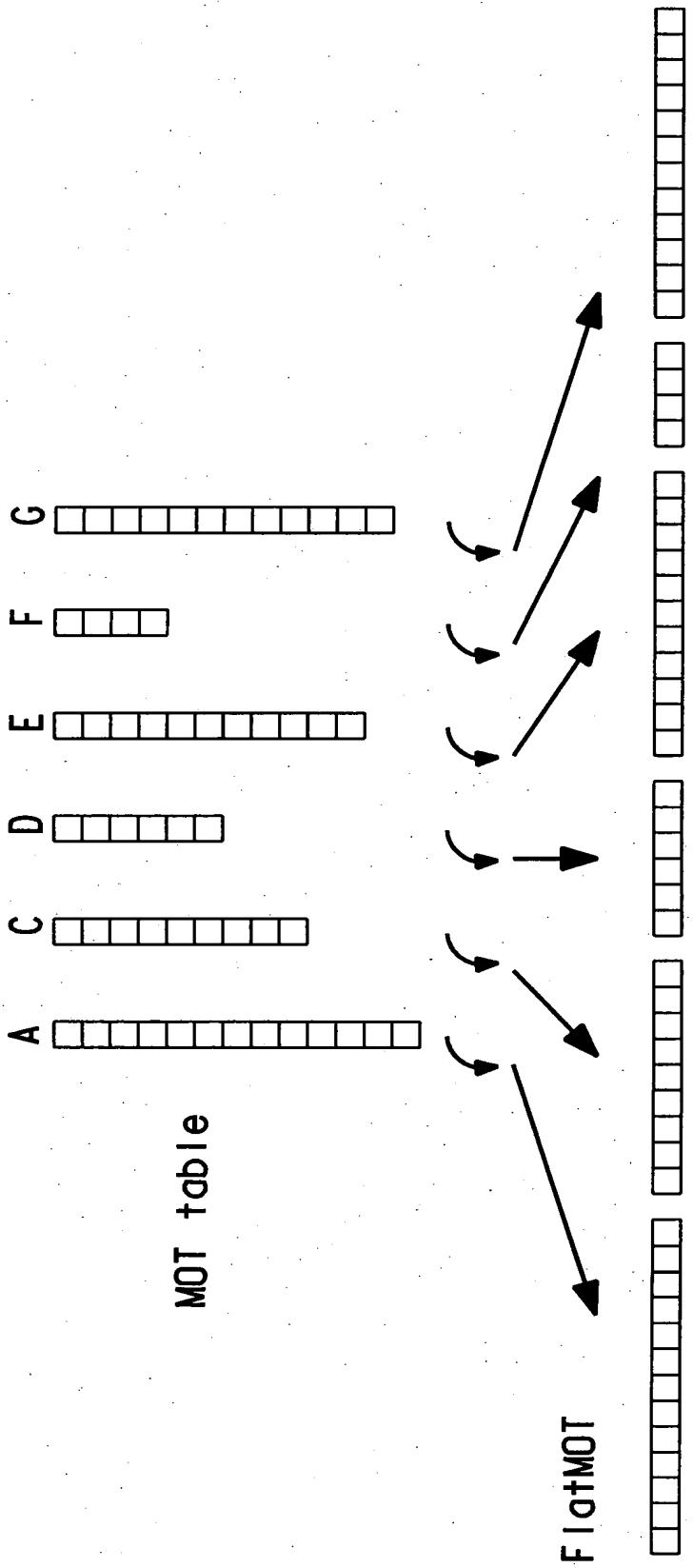

FIG. 4

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Maximum number of don't-cares = 3
Minimum number of symbols = 6

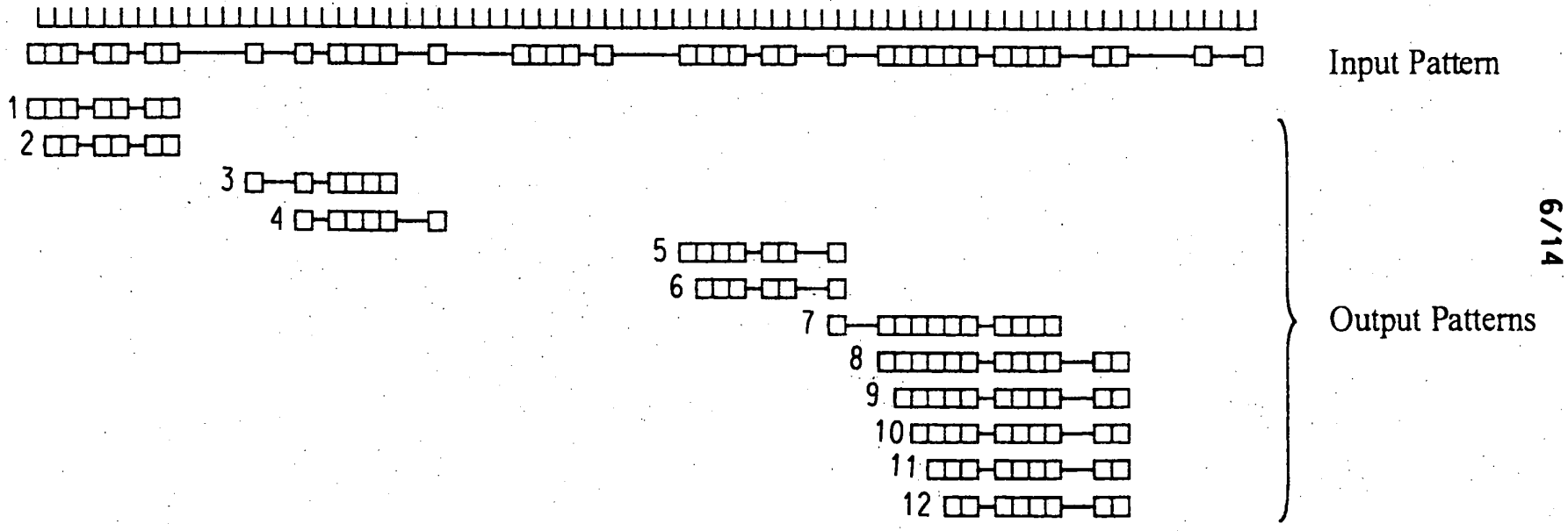

FIG. 5

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Gap size parameter g = 3
Minimum number of symbols = 6

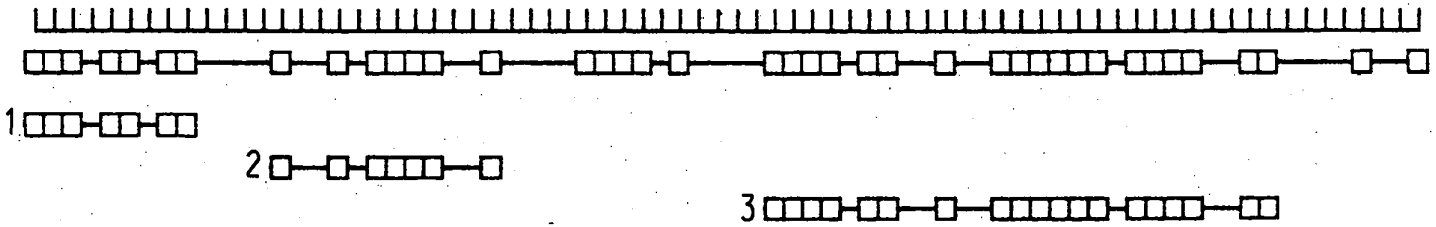

FIG. 6

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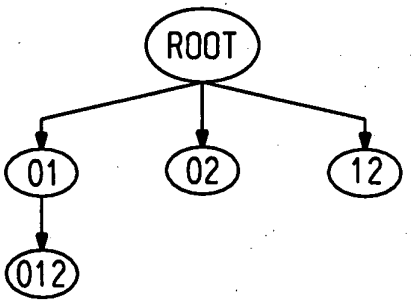

SEQUENCES

S_0: ADBCDACC
S_1: BCDADABA
S_2: CDCDBCDA

1- TUPLE TABLES

(0)	
A	0
A	5
B	2
C	3
C	6
C	7
D	1
D	4

(1)	
A	3
A	5
A	7
B	0
B	6
C	1
D	2
D	4

(2)	
A	7
B	4
C	0
C	2
C	5
D	1
D	3
D	6

FIG. 7A

(01)

RAW (0,1)		
A	0	3
A	0	5
A	0	7
A	5	-2
A	5	0
A	5	2
B	2	-2
B	2	4
C	3	-2
C	6	-5
C	7	-6
D	1	1
D	1	3
D	4	-2
D	4	0

SORTED (0,1)		
C	7	-6
C	6	-5
A	0	-3
B	2	-2
C	3	-2
D	4	-2
A	5	-2
D	4	0
A	5	0
D	1	1
A	5	2
D	1	3
B	2	4
A	0	5
A	0	7

SQUEEZED (0,1)		
B	2	-2
C	3	-2
D	4	-2
A	5	-2
D	4	0
A	5	0

UNSORTED (0,1)		
A	5	-2
A	5	0
B	2	-2
C	3	-2
D	4	-2
D	4	0

(012)

UNSORTED, MERGED (0,1,2)			
A	5	-2	2
A	5	0	2
B	2	-2	2
C	3	-2	-3
C	3	-2	-1
C	3	-2	2
D	4	-2	-3
D	4	0	-3
D	4	-2	-1
D	4	0	-1
D	4	-2	2
D	4	0	2

SORTED (0,1,2)			
C	3	-2	-3
D	4	-2	-3
D	4	0	-3
C	3	-2	-1
D	4	-2	-1
D	4	0	-1
B	2	-2	2
C	3	-2	2
D	4	-2	2
A	5	-2	2
D	4	0	2
A	5	0	2

SQUEEZED (0,1,2)			
C	3	-2	-3
D	4	-2	-3
C	3	-2	-1
D	4	-2	-1
B	2	-2	2
C	3	-2	2
D	4	-2	2
A	5	-2	2
D	4	0	2
A	5	0	2

OIPE JC181
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PATENT & TRADEMARK OFFICE

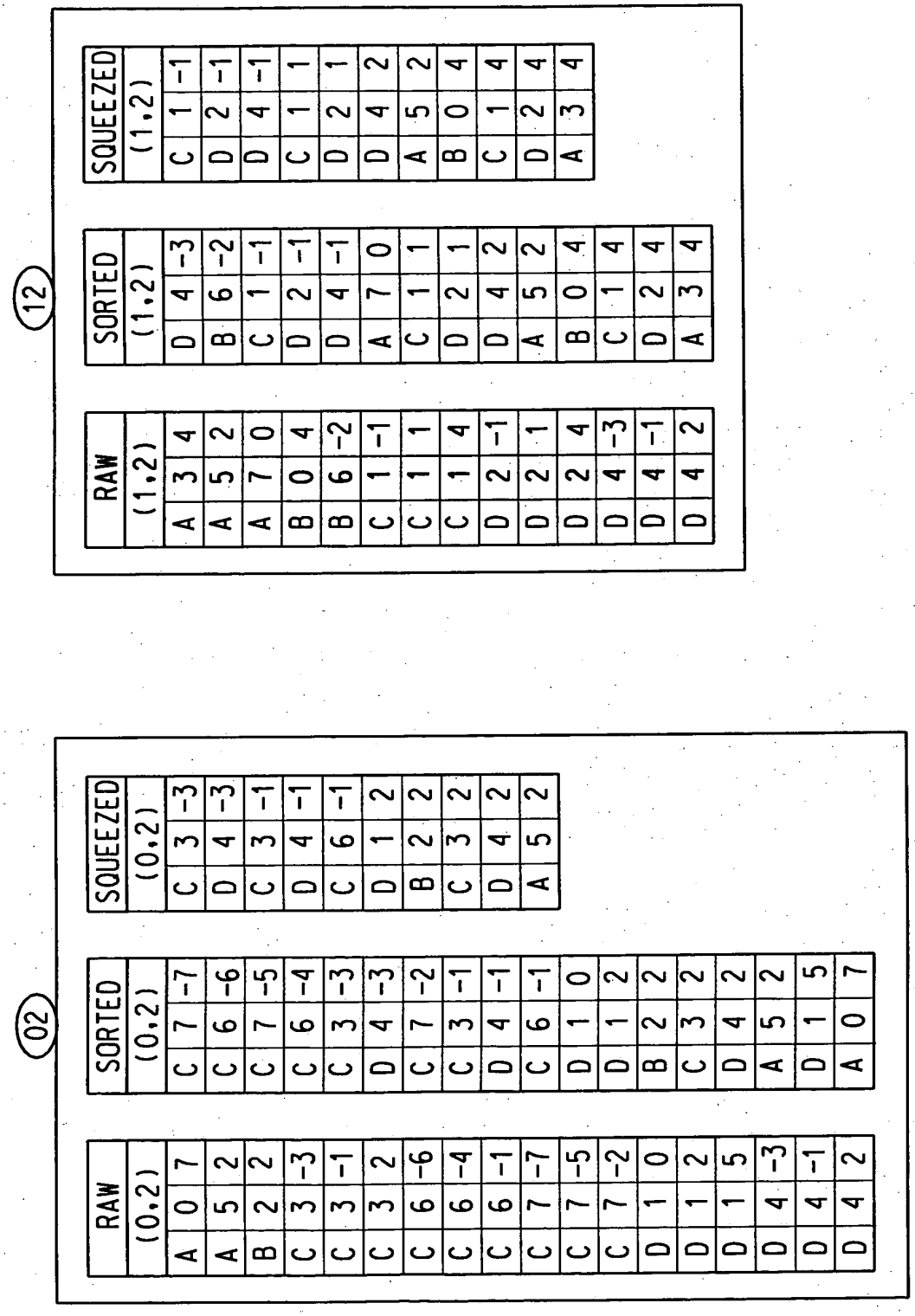

FIG. 7B

OIPE JC181
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PATENT & TRADEMARK OFFICE

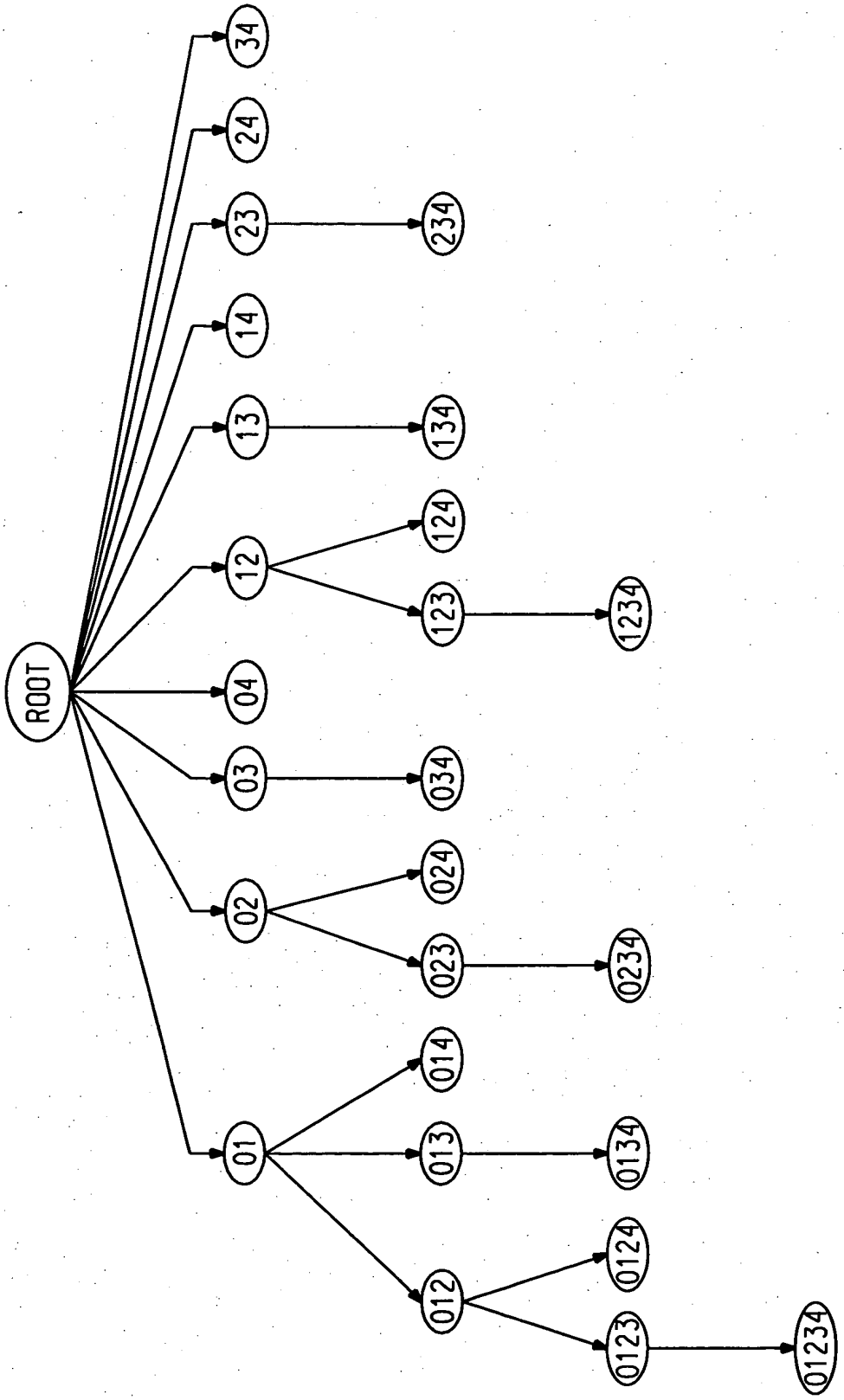

FIG. 8

OIPE SC1601
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PATENT & TRADEMARK OFFICE

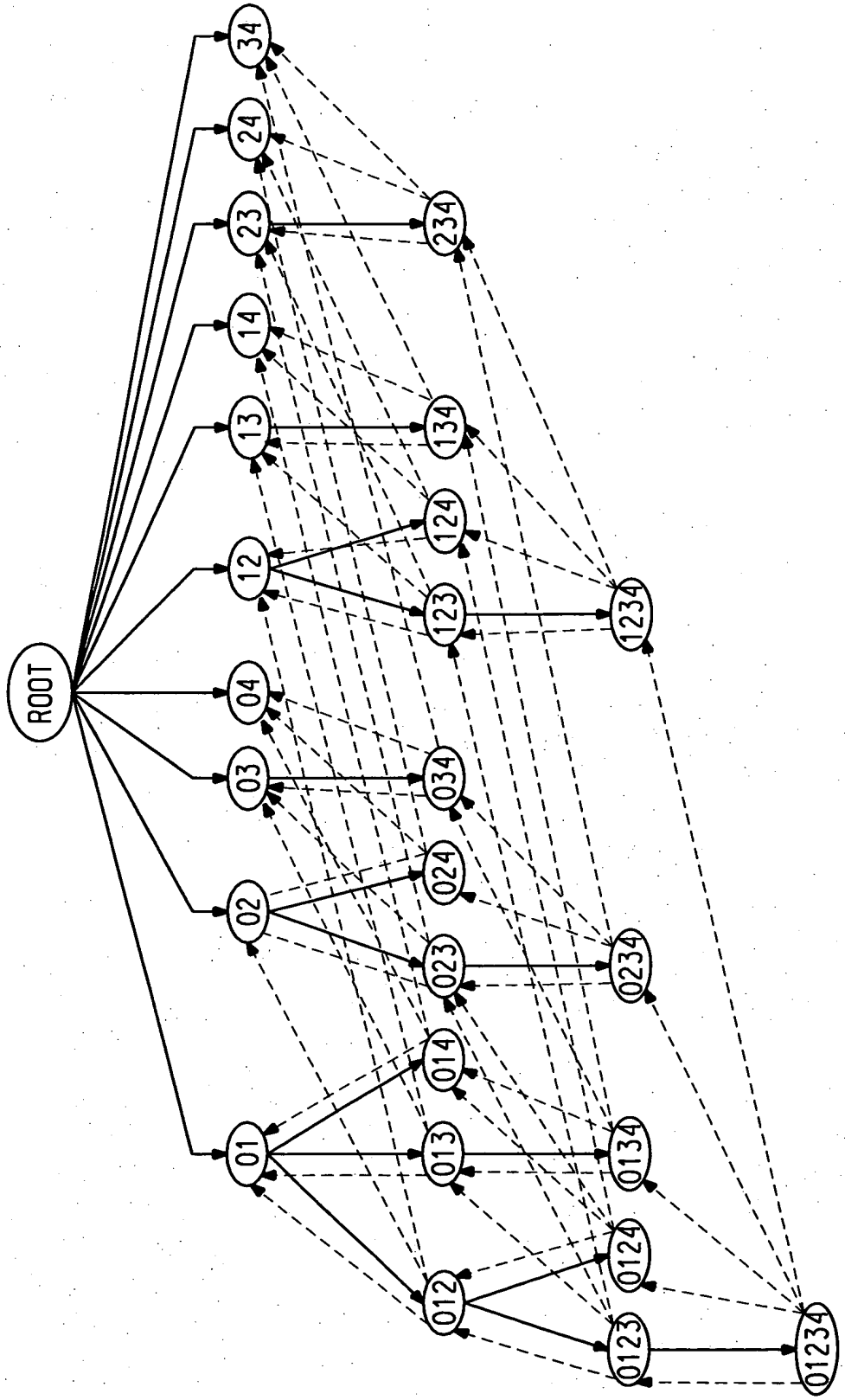

FIG. 9

OIPE JC181
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PATENT & TRADEMARK OFFICE

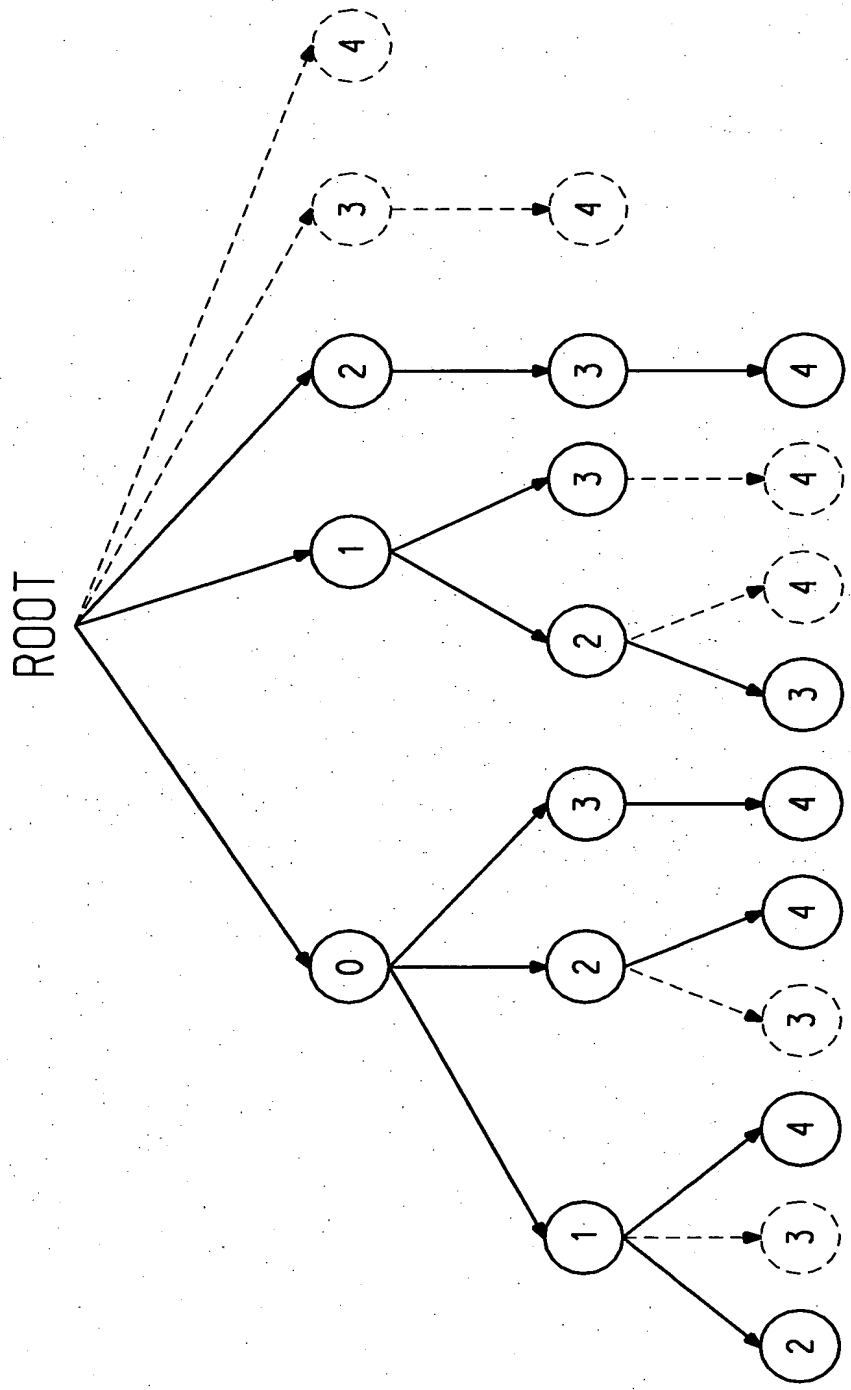

FIG. 10

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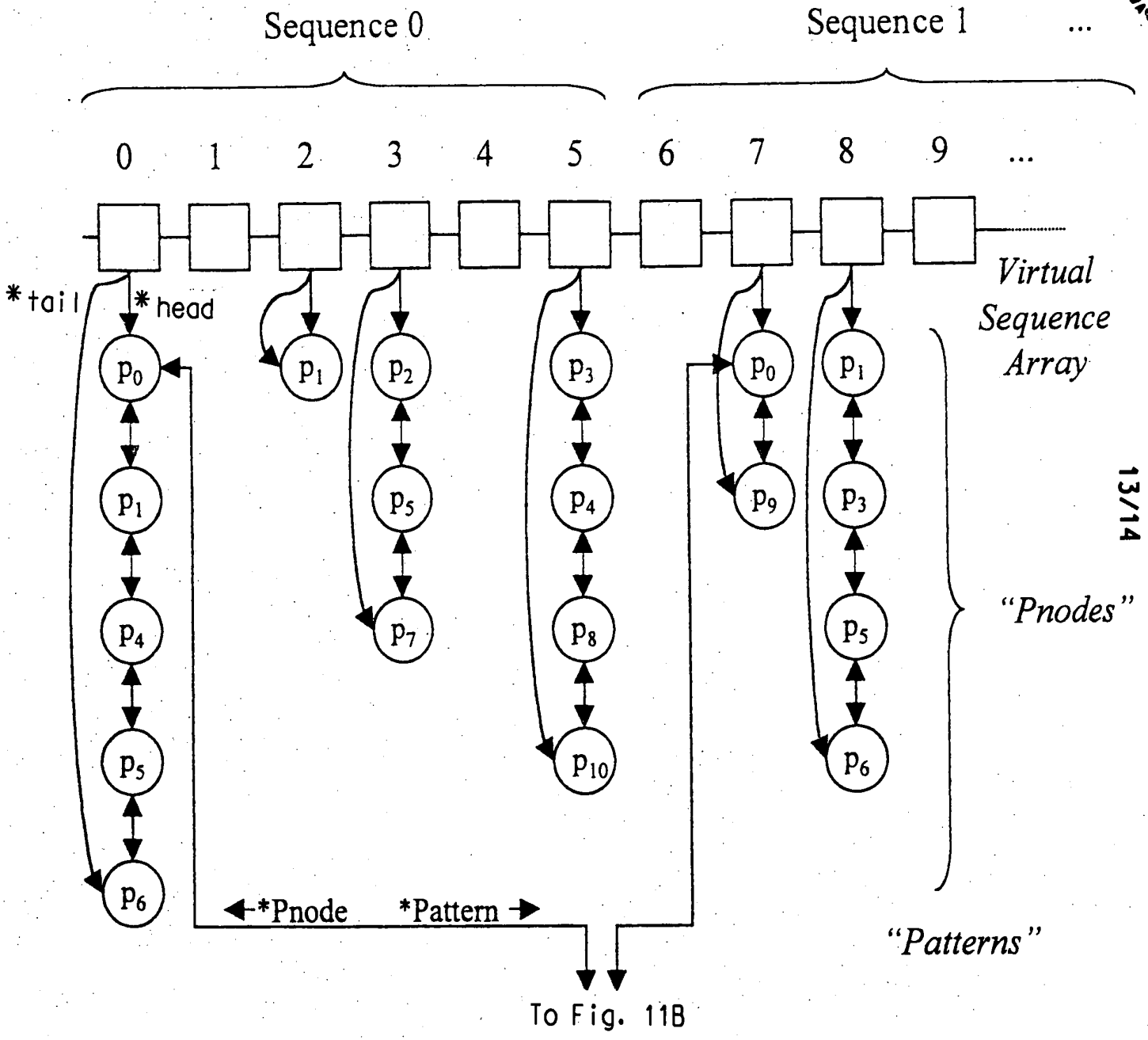
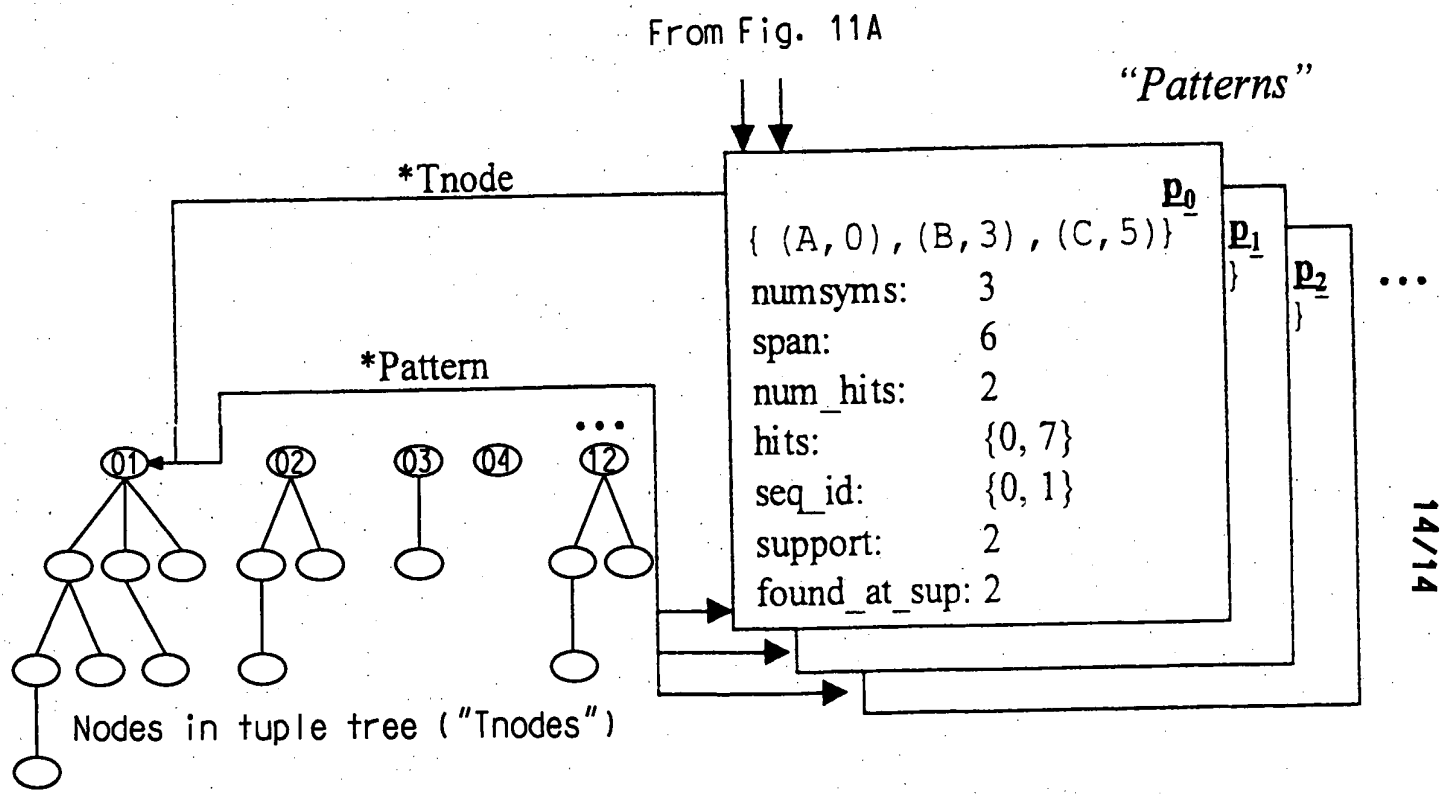
FIG. 11A

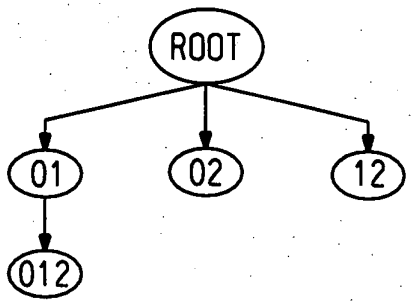


PATENT & TRADEMARK OFFICE
DEC 17 2004
OIPE

FIG. 11B



PATENT & TRADEMARK OFFICE
DEC 17 2004
OIPE



SEQUENCES

S_0: ADBCDACC
S_1: BCDADABA
S_2: CDCDBCDA

1- TUPLE TABLES

(0)	
A	0
A	5
B	2
C	3
C	6
C	7
D	1
D	4

(1)	
A	3
A	5
A	7
B	0
B	6
C	1
D	2
D	4

(2)	
A	7
B	4
C	0
C	2
C	5
D	1
D	3
D	6

FIG. 7A

(01)

RAW (0,1)		
A	0	-3
A	0	5
A	0	7
A	5	-2
A	5	0
A	5	2
B	2	-2
B	2	4
C	3	-2
C	6	-5
C	7	-6
D	1	1
D	1	3
D	4	-2
D	4	0

SORTED (0,1)		
C	7	-6
C	6	-5
A	0	-3
B	2	-2
C	3	-2
D	4	-2
A	5	-2
D	4	0
A	5	0
D	1	1
A	5	2
D	1	3
B	2	4
A	0	5
A	0	7

SQUEEZED (0,1)		
B	2	-2
C	3	-2
D	4	-2
A	5	-2
D	4	0
A	5	0

UNSORTED (0,1)		
A	5	-2
A	5	0
B	2	-2
C	3	-2
D	4	-2
D	4	0

(012)

UNSORTED, MERGED (0,1,2)			
A	5	-2	2
A	5	0	2
B	2	-2	2
C	3	-2	-3
C	3	-2	-1
C	3	-2	2
D	4	-2	-3
D	4	0	-3
D	4	-2	-1
D	4	0	-1
D	4	-2	2
D	4	0	2

SORTED (0,1,2)			
C	3	-2	-3
D	4	-2	-3
D	4	0	-3
C	3	-2	-1
D	4	-2	-1
D	4	0	-1
B	2	-2	2
C	3	-2	2
D	4	-2	2
A	5	-2	2
D	4	0	2
A	5	0	2

SQUEEZED (0,1,2)			
C	3	-2	-3
D	4	-2	-3
C	3	-2	-1
D	4	-2	-1
B	2	-2	2
C	3	-2	2
D	4	-2	2
A	5	-2	2
D	4	0	2
A	5	0	2